



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,982	08/21/2001	Todd Lagimonier	003636.0115	6823

7590 05/13/2010  
MANELLI DENISON & SELTER PLLC  
ATTN: William H Bollman  
2000 M Street NW  
Suite700  
Washington, DC 20016

EXAMINER
----------

PYZOCHA, MICHAEL J

ART UNIT	PAPER NUMBER
----------	--------------

2437

MAIL DATE	DELIVERY MODE
-----------	---------------

05/13/2010

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

<b>Application No.</b>	09/932,982		<b>Applicant(s)</b>	LAGIMONIER ET AL.
<b>Examiner</b>	MICHAEL PYZOCHA	<b>Art Unit</b>	2437	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1)  Responsive to communication(s) filed on 15 April 2010.
- 2a)  This action is **FINAL**.                      2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4)  Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-43 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a)  All    b)  Some \*    c)  None of:
1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____.  | 6) <input type="checkbox"/> Other: _____.                         |

### DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/15/2010 has been entered.
2. Claims 1-43 are pending.

10

### ***Claim Rejections - 35 USC § 101***

15

20

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 10-35 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 19-27 to a computer readable storage medium, based on the guidance provided by the Official Gazette with respect to Subject Matter Eligibility of Computer Readable Media (see 1351 OG 212) this medium can be interpreted as including both statutory and non-statutory media and therefore is directed to non-statutory subject matter. It is recommended to amend these claims to "A non-transitory computer readable storage medium" to overcome this rejection.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

5 (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10 6. Claims 1-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Milliken (US 6978384) in view of Rezaiifar et al. (US 6418143).

As per claims 1, 10, 19, 28, and 36, Milliken discloses determining a largest nonce value yet seen from a plurality of nonce values of out-of-order messages (see  
15 column 8 lines 64-65); comparing a nonce value of a received message with said largest nonce value yet seen at a receiving client device (see column 8 line 65); comparing said nonce value to an acceptance window in response to said nonce value not exceeding said largest nonce value yet seen at a receiving client device (see  
20 column 9 lines 31-453); adjusting a range of acceptable nonce values within said acceptance window (see column 3 lines 56-61 and column 9 lines 1-30); rejecting said received message in response to said nonce value falling outside said acceptance window; in a secure peer to peer communication (see column 9 lines 31-42).

Milliken fails to explicitly disclose adjusting the size of the window, at the receiving client device, based on the largest nonce value yet seen.

25 However, Rezaiifar et al. teaches a adjusting a sliding window, at the receiving client device, size based on the largest nonce value yet seen (see Fig. 3 and 5 and

column 5 lines 26-36 and column 6 lines 13-62 where range of accepted values is between L\_V(N) and L\_V(R) and L\_V(R) is set to L\_SEQ when L\_SEQ > L\_V(R) therefore the range of accepted values is increased).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to vary the size of the window in the Milliken system.

Motivation to do so would have been to extend the sequence numbering range in the protocol (see Rezaifar et al. column 2 lines 59-60).

As per claims 2, 3, 11, 13, 20, 21, 29, and 37, the modified Milliken and Rezaifar et al. system discloses designating said nonce value as said largest nonce value yet seen in response to said nonce value exceeding said largest nonce value yet seen (see Milliken column 9 lines 1-30).

As per claims 4, 12, 22, 30, and 38, the modified Milliken and Rezaifar et al. system discloses adjusting an acceptance window based on said nonce value exceeding said largest nonce value yet seen (see Milliken column 9 lines 1-30).

As per claims 5, 7, 14, 16, 23, 25, 32, 34, 40, and 42, the modified Milliken and Rezaifar et al. system discloses designating said received message as a replay attack (see Milliken column 3 lines 50-67).

As per claims 6, 8, 15, 17, 24, 26, 33, and 41, the modified Milliken and Rezaifar et al. system discloses comparing said nonce value to a window mask value in response to said nonce value falling within said acceptance window; rejecting said received message in response to an outcome of said comparison of said nonce value to said window mask value being true (see Milliken column 9 lines 31-53).

As per claims 9, 18, and 27, the modified Milliken and Rezaiifar et al. system discloses designating said nonce value as a large nonce value seen (see Milliken column 9 lines 1-30).

5 As per claims 31 and 39, the modified Milliken and Rezaiifar et al. system discloses said secure communication module is further configured to reject said received packet in response to said nonce value falling outside said filter (see Milliken column 9 lines 31-53).

10 As per claims 35 and 43, the modified Milliken and Rezaiifar et al. system discloses said secure communication module is further configured to reject said received packet in response to said nonce value fails to fall within said filter and said secure communication module is further configured to designate said received packet as part of a replay attack (see Milliken column 3 lines 50-67 and column 9 lines 31-53).

### ***Response to Arguments***

15 7. Applicant's arguments with respect to claims 1-43 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

20 Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PYZOCHA whose telephone number is (571)272-3875. The examiner can normally be reached on Monday-Thursday, 7:00am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should  
10 you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

15  
/Michael Pyzocha/  
Primary Examiner, Art Unit 2437